

NEW COMBINATIONS IN *EUTROCHIUM*
(ASTERACEAE: EUPATORIEAE), AN EARLIER NAME
THAN *EUPATORIADELPHUS*

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ABSTRACT

The following new combinations are proposed: *Eutrochium dubium*, *Eutrochium fistulosum*, *Eutrochium maculatum*, *Eutrochium maculatum* var. *bruneri*, *Eutrochium maculatum* var. *foliosum*, *Eutrochium purpureum*, *Eutrochium purpureum* var. *holzingeri*, and *Eutrochium steelei*.

RESUMEN

Se proponen las siguientes combinaciones nuevas: *Eutrochium dubium*, *Eutrochium fistulosum*, *Eutrochium maculatum*, *Eutrochium maculatum* var. *bruneri*, *Eutrochium maculatum* var. *foliosum*, *Eutrochium purpureum*, *Eutrochium purpureum* var. *holzingeri*, y *Eutrochium steelei*.

Plants known as Joe-Pye weeds have been long treated in *Eupatorium* L. (Lamont 1995). Sometimes, they have been treated as generically distinct, as members of *Eupatoriadelphus* R.M. King & H. Robinson (1970). Recent studies based on chloroplast DNA (cpDNA) restriction site analysis (Schilling et al. 1999) and nuclear internal transcribed spacer (ITS) sequence data (Schmidt & Schilling 2000) have been interpreted as providing support for recognizing *Eupatoriadelphus* as distinct. If treated as distinct at generic rank, an earlier name should be used for the group, *Eutrochium* Raf.

***Eutrochium* Raf.**, New Fl. 4:78. 1836 [1838]. TYPE: *Eutrochium purpureum* (L.) E.E. Lamont (LECTOTYPE, here designated).

The following new combinations are needed for treatment of Joe-Pye weeds as members of *Eutrochium* in a forthcoming volume of Flora of North America North of Mexico.

***Eutrochium dubium* (Willd. ex Poiret) E.E. Lamont, comb. nov.** BASIONYM: *Eupatorium dubium* Willd. ex Poiret in J. Lamarck et al., Encycl. Suppl. 2:606. 1811. *Eupatoriadelphus dubius* (Willd. ex Poiret) R.M. King & H. Robinson, Phytologia 19:432. 1970.

***Eutrochium fistulosum* (Barratt) E.E. Lamont, comb. nov.** BASIONYM: *Eupatorium fistulosum* Barratt, Eupatoria Verticillata no. 1. 1841; in A. Wood, Class-book Bot., ed. 10. 314. 1849. *Eupatoriadelphus fistulosus* (Barratt) R.M. King & H. Robinson, Phytologia 19:432. 1970.

- Eutrochium maculatum** (L.) E.E. Lamont, comb. nov. BASIONYM: *Eupatorium maculatum* L., Cent. Pl. 1, 27. 1755. *Eupatoriadelphus maculatus* (L.) R.M. King & H. Robinson, Phytologia 19:432. 1970
- Eutrochium maculatum** (L.) E.E. Lamont var. **bruneri** (A. Gray) E.E. Lamont, comb. nov. BASIONYM: *Eupatorium bruneri* A. Gray in A. Gray et al., Syn. Fl. N. Amer. 1(2):96. 1884. *Eupatoriadelphus maculatus* (L.) R.M. King & H. Robinson var. *bruneri* (A. Gray) R.M. King & H. Robinson, Phytologia 45:465. 1980
- Eutrochium maculatum** (L.) E.E. Lamont var. **foliosum** (Fernald) E.E. Lamont, comb. nov. BASIONYM: *Eupatorium purpureum* L. var. *foliosum* Fernald, Rhodora 10:86. 1908. *Eupatorium maculatum* L. var. *foliosum* (Fernald) Wiegand, Rhodora 22:66. 1920.
- Eutrochium purpureum** (L.) E.E. Lamont, comb. nov. BASIONYM: *Eupatorium purpureum* L., Sp. Pl. 838. 1753. *Cunigunda purpurea* (L.) Lunell, Amer. Midl. Naturalist 5:35. 1917. *Eupatoriadelphus purpureus* (L.) R.M. King & H. Robinson, Phytologia 19:432. 1970
- Eutrochium purpureum** (L.) E.E. Lamont var. **holzingeri** (Rydberg) E.E. Lamont, comb. nov. BASIONYM: *Eupatorium holzingeri* Rydberg, Brittonia 1:97. 1931. *Eupatorium purpureum* L. var. *holzingeri* (Rydberg) E.E. Lamont, Phytologia 69:468. 1990 [1991].
- Eutrochium steelei** (E.E. Lamont) E.E. Lamont, comb. nov. BASIONYM: *Eupatorium steelei* E.E. Lamont, Brittonia 42:279. 1990. *Eupatoriadelphus steelei* (E.E. Lamont) G.J. Schmidt & E.E. Schilling, Amer. J. Bot. 87:726. 2000.

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REFERENCES

- KING, R.M. and H. ROBINSON. 1970. Studies in Eupatorieae (Compositae). XXV. A new genus, *Eupatoriadelphus*. Phytologia 19:431–432.
- LAMONT, E.E. 1995. Taxonomy of *Eupatorium* section *Verticillata* (Asteraceae). Mem. New York Bot. Gard. 72:1–68.
- SCHILLING, E.E., J.L. PANIERO, and P.B. COX. 1999. Chloroplast DNA restriction site data support a narrowed interpretation of *Eupatorium* (Asteraceae). Pl. Syst. Evol. 219:209–223.
- SCHMIDT, G.J. and E.E. SCHILLING. 2000. Phylogeny and biogeography of *Eupatorium* (Asteraceae: Eupatorieae) based on nuclear ITS sequence data. Amer. J. Bot. 87:716–726.